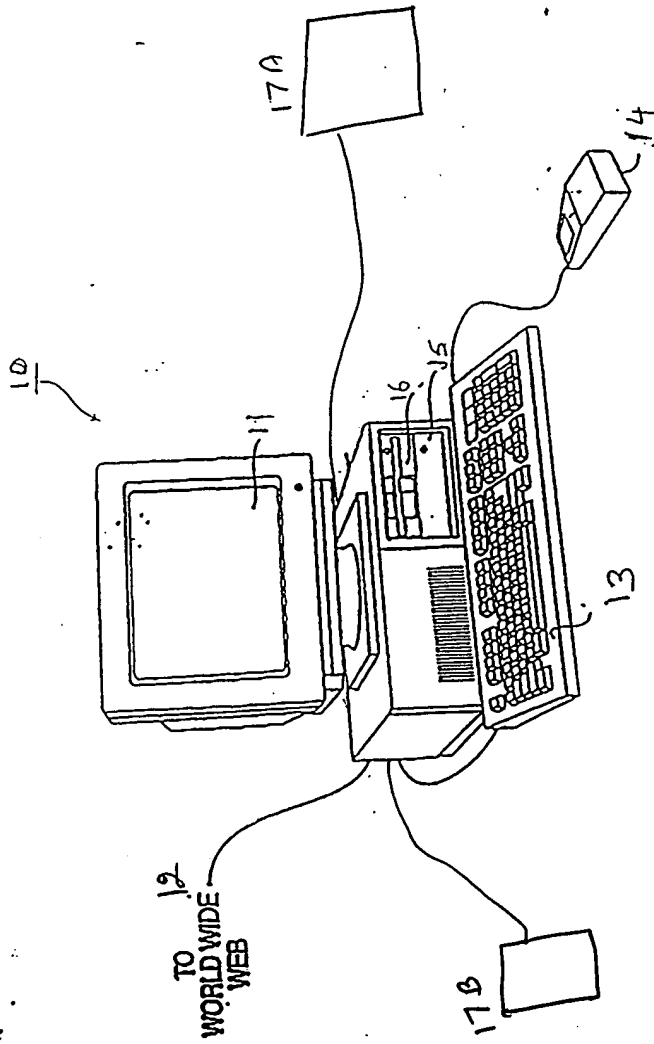


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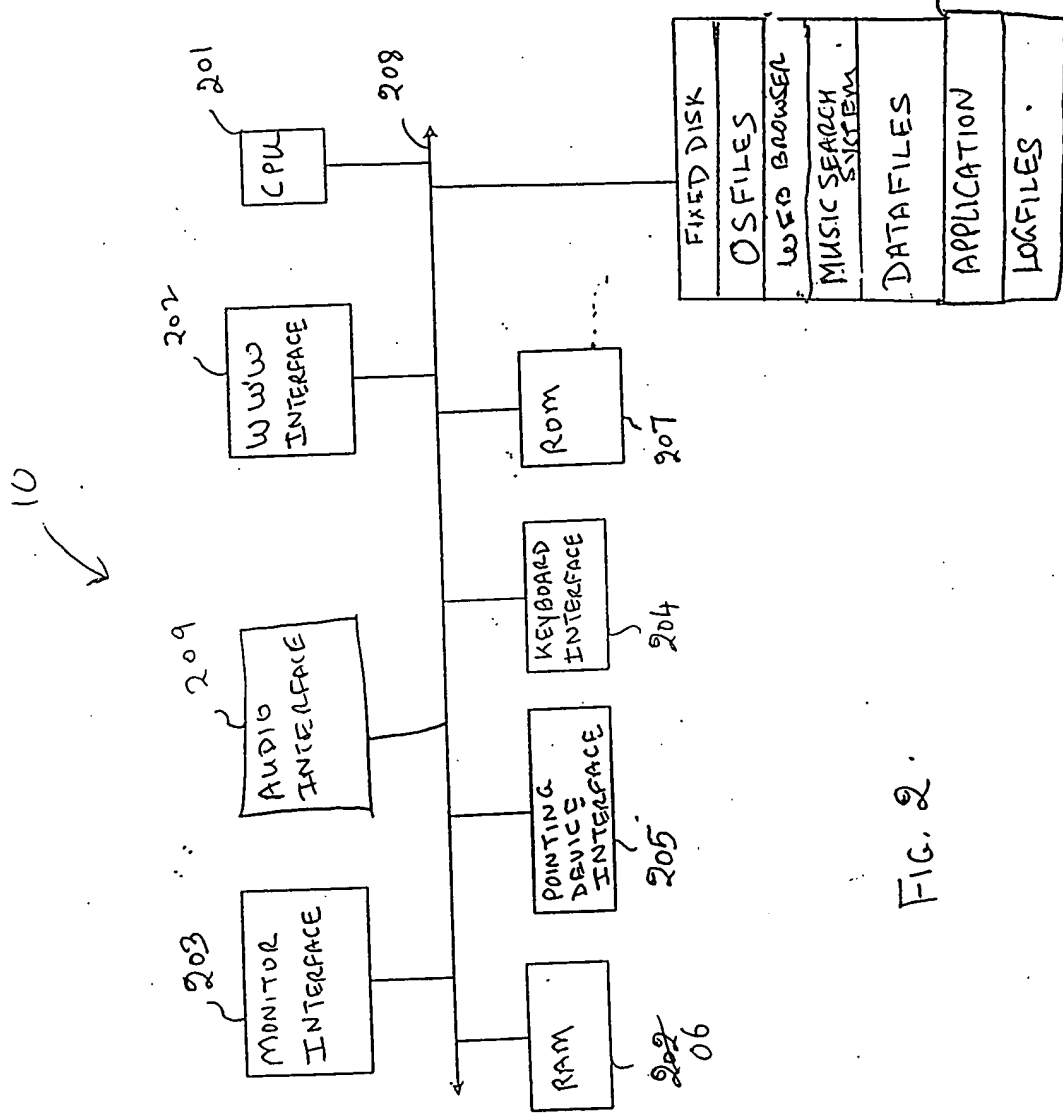


FIG. 2.

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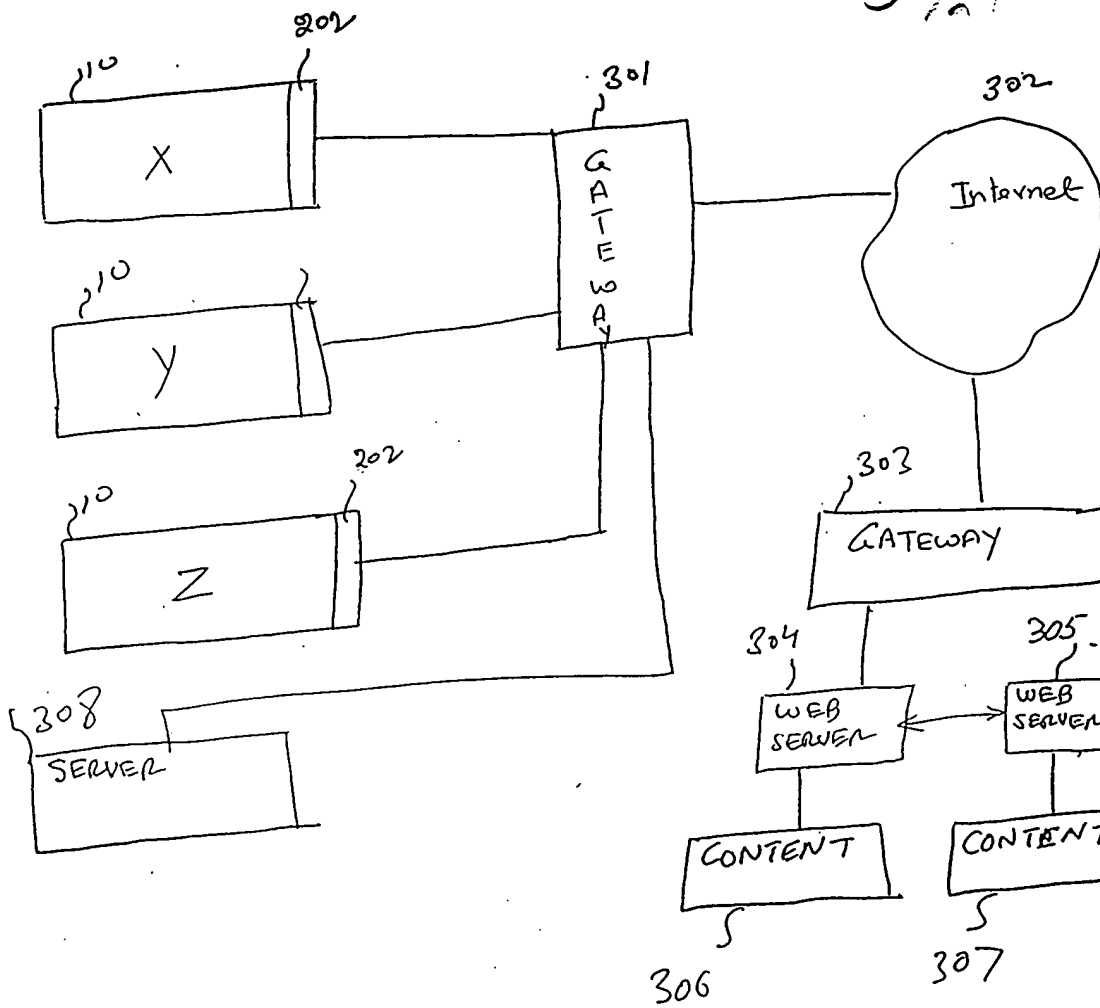


FIG. 3.

PRINT OF DRAWING
AS ORIGINALLY FILED

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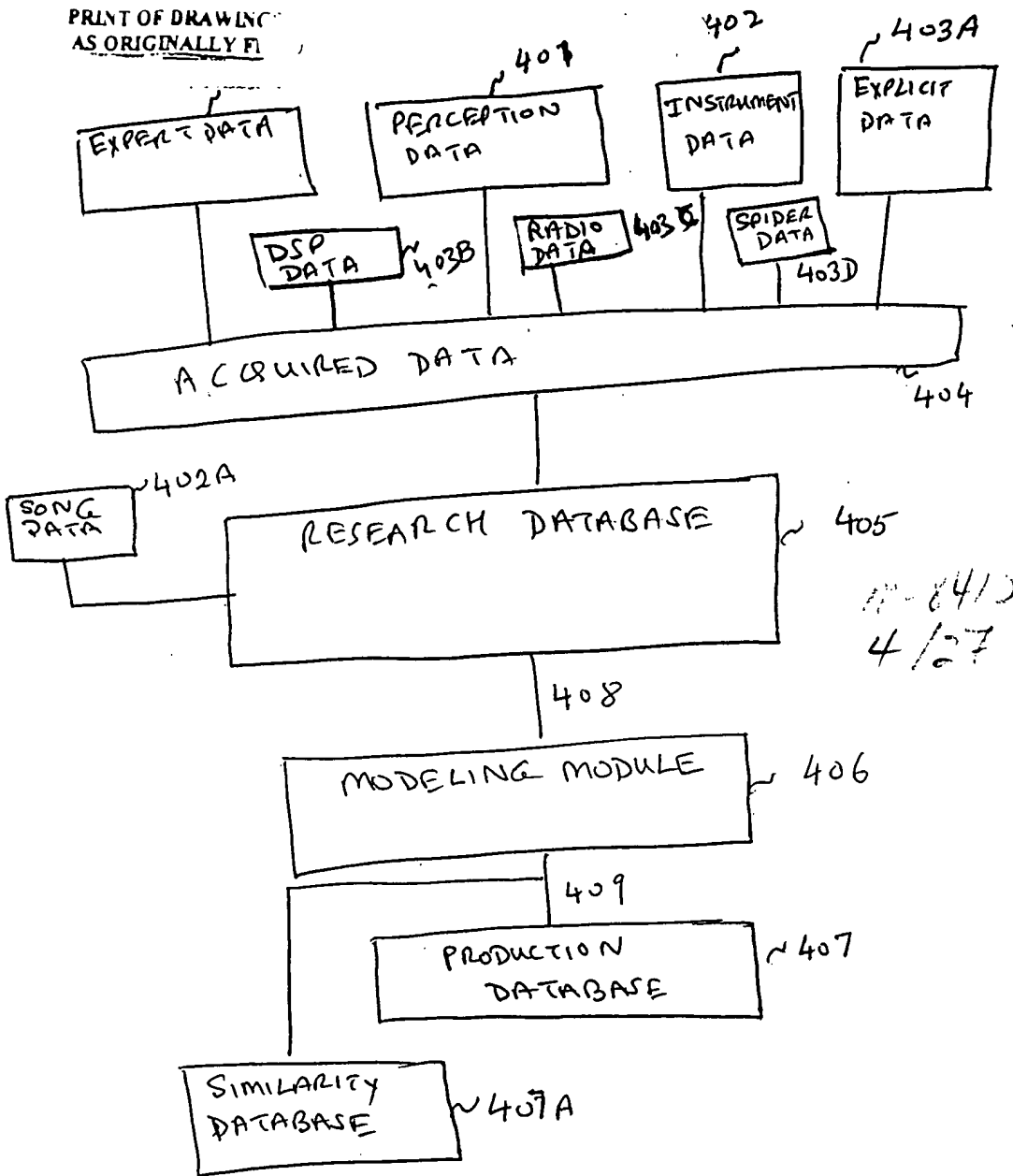


FIG. 4

PROVIDE MUSIC
SAMPLES AND
QUESTIONS TO
EXPERTS

~S501
PROVIDE
MUSIC SAMPLES
AND QUESTIONS
TO USERS

~S501C
PROVIDE
EXPLICIT
PAIRWISE
SAMPLES
TO EXPERTS

LISTENERS RESPOND TO QUESTIONS

~S502

STORE LISTENER RESPONSES IN RESEARCH
DATABASE

~S503

TRANSFER LISTENER RESPONSES TO MODELING
MODULE

~S504

PROCESS LISTENER RESPONSE DATA
AND CREATE SIMILARITY MODEL

~S505

CREATE PRODUCTION DATABASE

~S506

EVALUATE SIMILARITY MODEL

~S507

ACQUIRE EXPERT DATA FOR DEFECTIVE
MODELS

~S508

POPULATE SIMILARITY DATABASE
407A

~S509

FIG 5A

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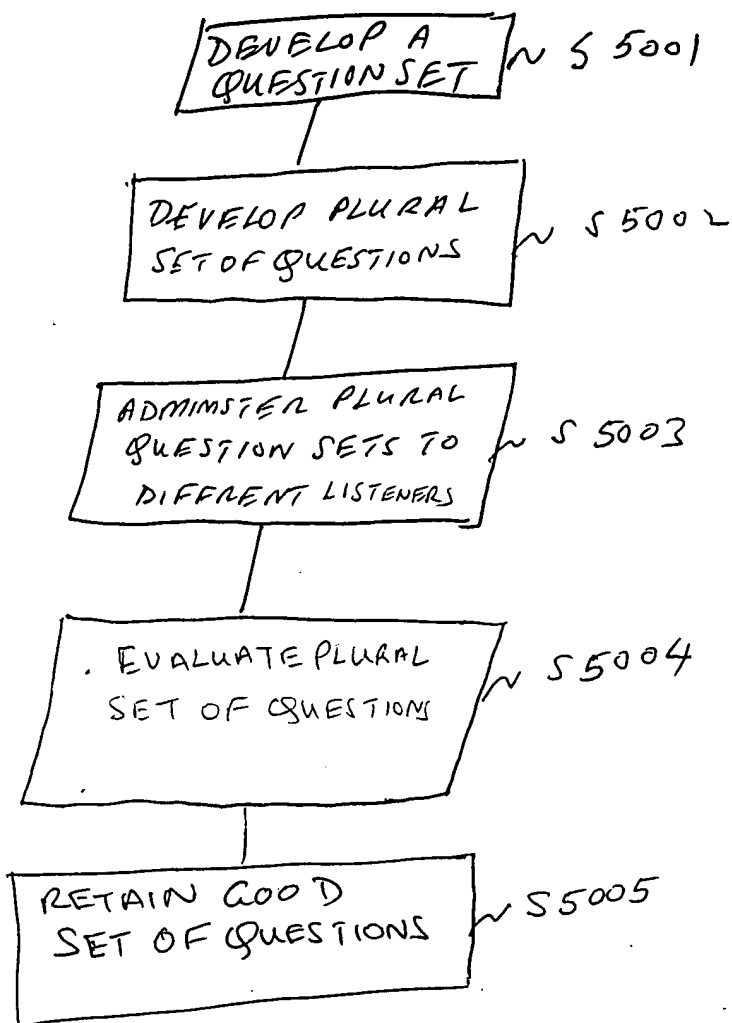


FIG 5B

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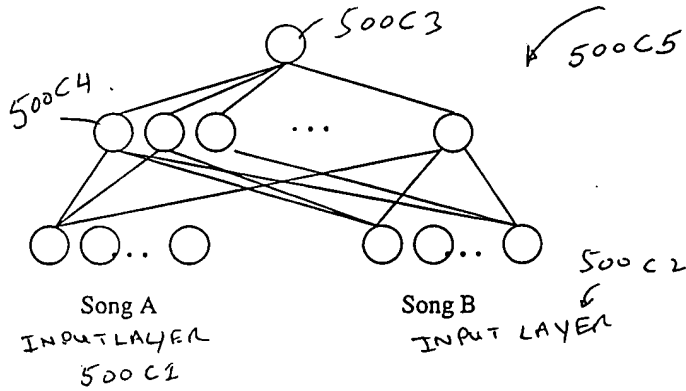


FIG 5C1

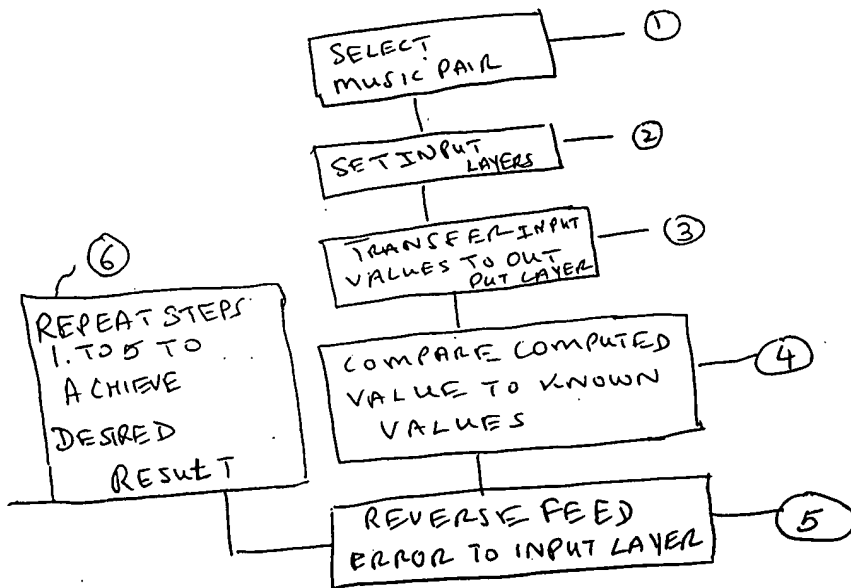


FIG 5C2

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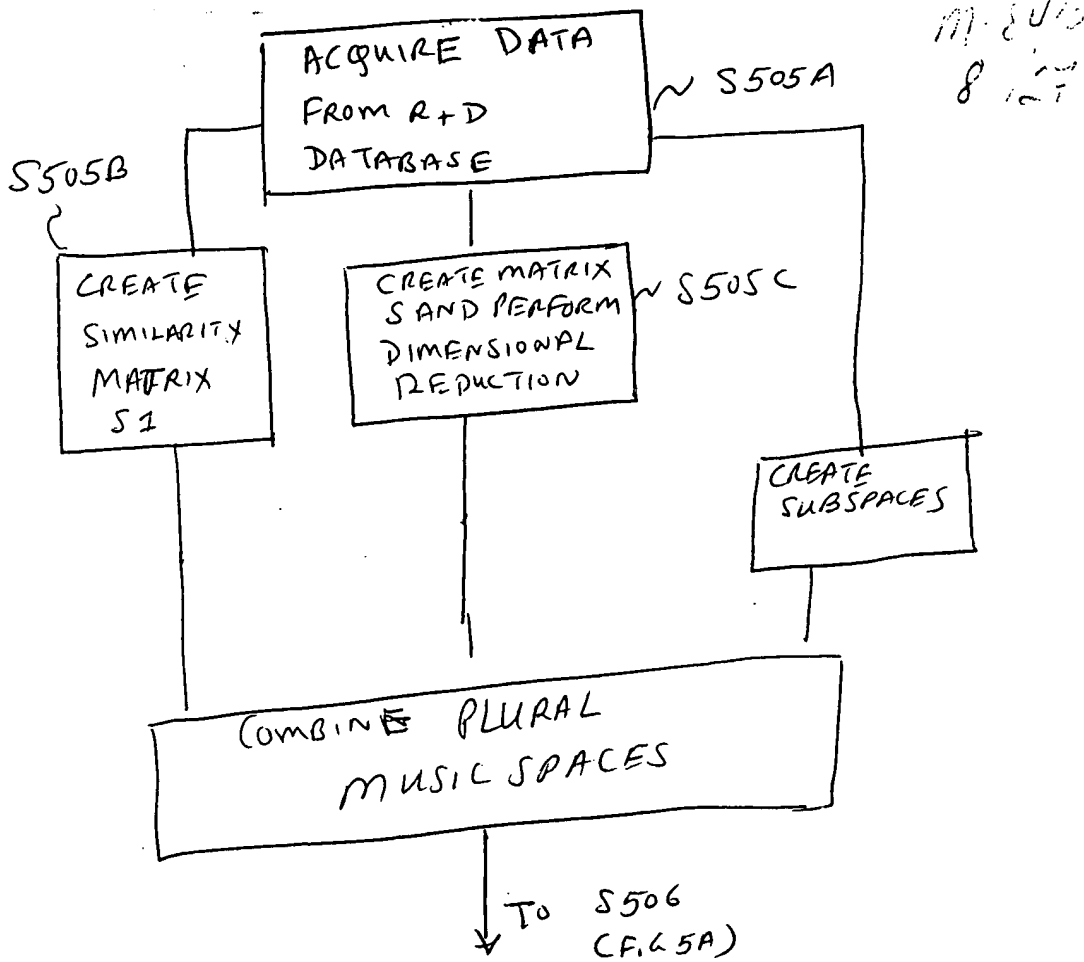
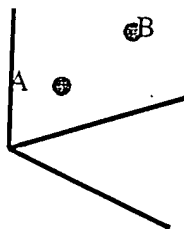
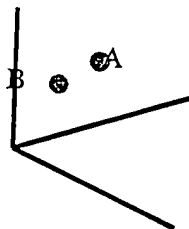


FIG 5C3

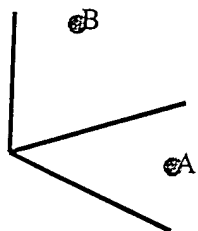
M. 1410
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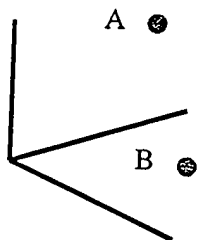
Genre Space



Emotions Space



Vocal Quality
Space



Sound Space

FIG 5D.

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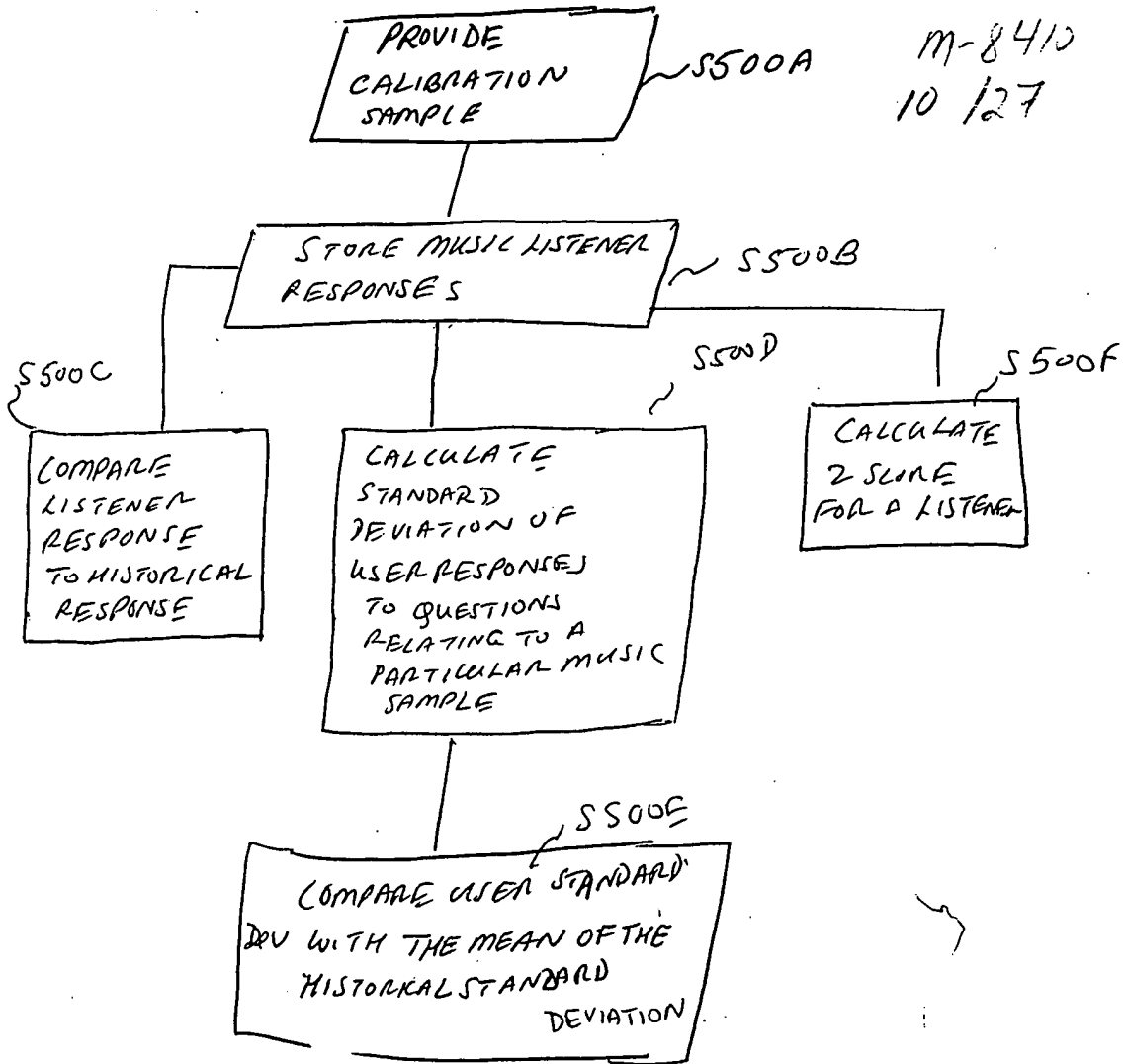


FIG 5.E

00000 50122500

MUSIC SAMPLE I		500AA		500BB		500CC		500DD		500EE		500FF		500GG		500HH	
QUESTIONS	LISTENER RESPONSES	HISTORICAL RESPONSE		HISTORICAL STANDARD DEVIATION		HISTORICAL MEDIAN		LISTENER TIME SPENT		HISTORICAL TIME SPENT		HISTORICAL RESPONSE MEAN					
1	R ₁	R _{1H1}	G _{1H}	R _{1Hmed}	T ₁	T _{1H}	R _{1Hm}										
2	R ₂	R _{2H2}	G _{2H}		T ₂	T _{2H}											
...										
...										
n	R _n	R _{nHn}	G _{nH}	R _{nHmed}	T _n	T _{nH}	R _{nHm}										

$$\text{Historical standard deviation for Sample I} = \frac{G_{1H} + G_{2H} + \dots + G_{nH}}{N}$$

$$\text{Listener Standard Deviation for Sample I} = \sqrt{\frac{\sum_{i=1}^n (R_{Li} - m_L)^2}{n}}$$

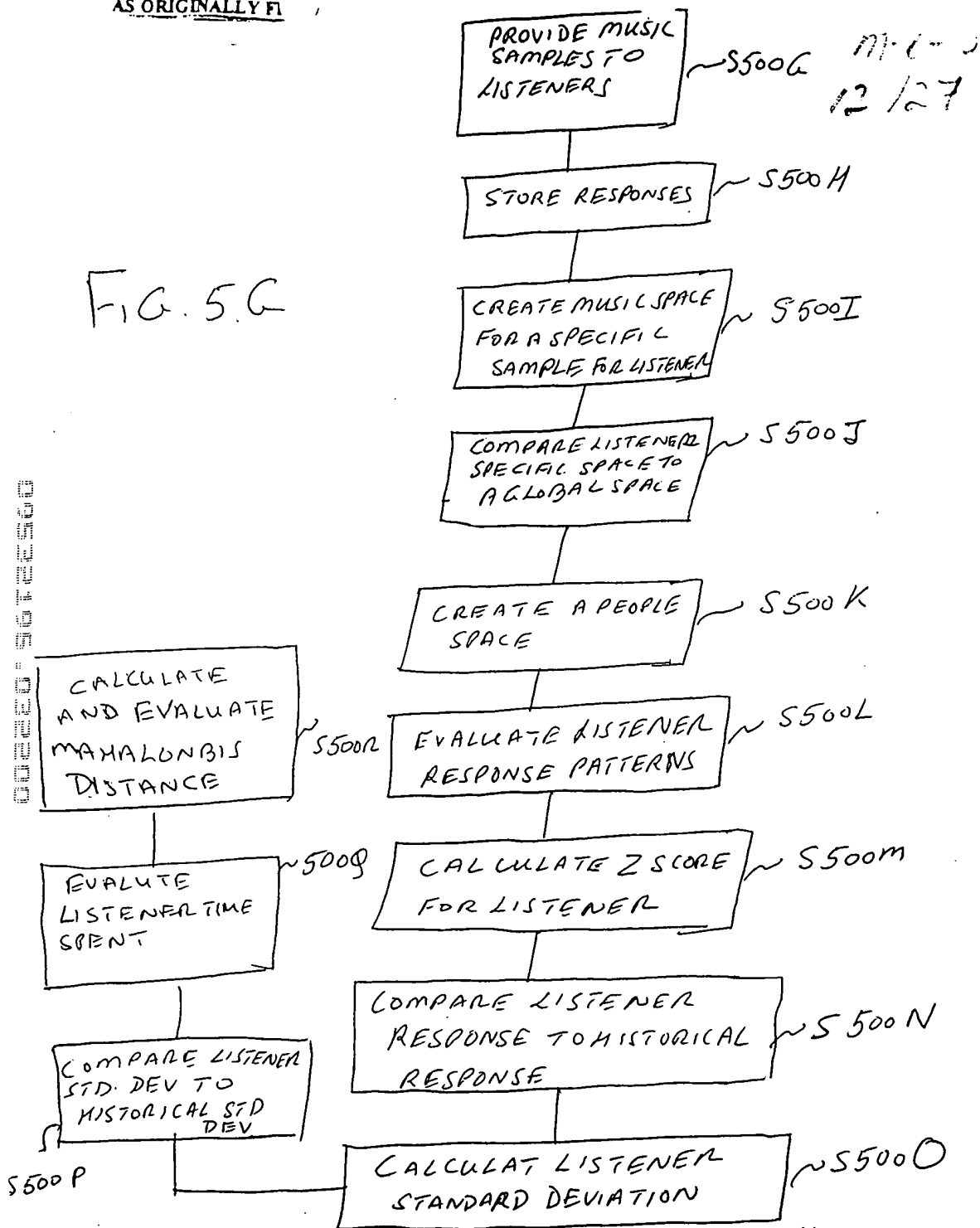
$$\text{Listener Mean Response (ML)} = \frac{R_{1H} + R_{2H} + \dots + R_{nH}}{n}$$

FIG 5 F

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11.127

FIG. 5.G

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SAMPLE I

500AA		500BB	
QUESTION		LISTENER RESPONSE	
1		R _{S1}	
⋮		⋮	
n		R _{Sn}	

SAMPLE II

500AA		500BB	
QUESTION		LISTENER RESPONSE	
1		R _{S1'}	
⋮		⋮	
n		R _{Sn'}	

FIG 5H

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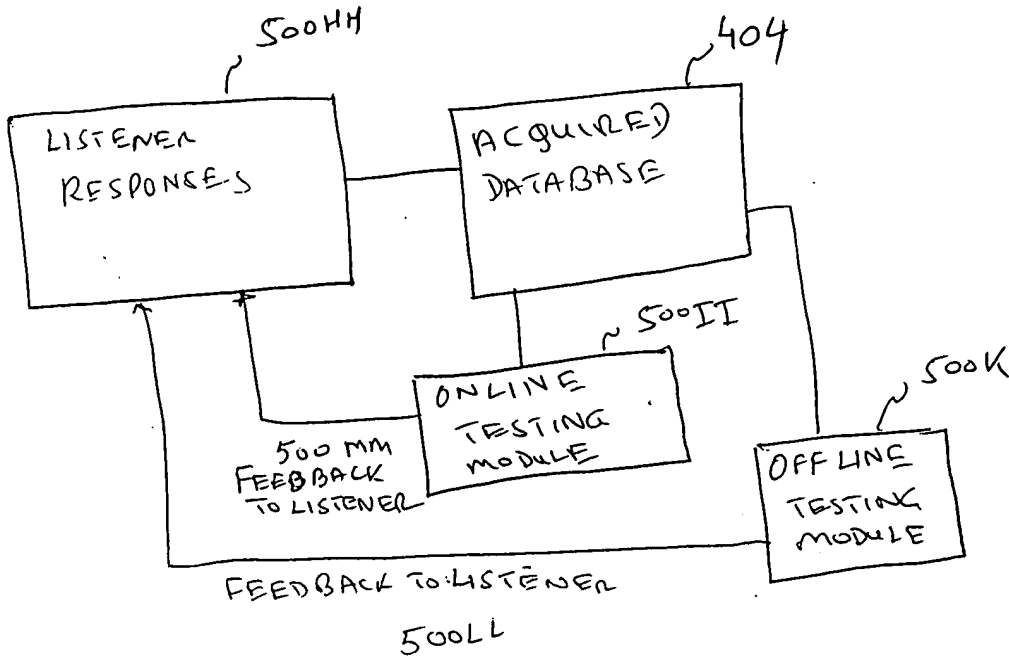


FIG 5I

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15 127

* Indicates required fields

First name:

MI:


Last name:

Email*:

Zip*:

City*:

Country*: 

Sex*: 

Year of Birth*: (e.g. 1977)


Connection*: 

FIG 6

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Play the Song

FIG. 7A1

Please fill out every question marked with this color

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700A

	STRONGLY DISAGREE			NEUTRAL			STRONGLY AGREE		
This song is similar to the previous song	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like this song	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This tune sticks in my mind	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song is simple	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song tells a story	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song emphasizes the melody	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song emphasizes the vocals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song is speech-like	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song has a strong beat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song has a good groove	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song is fast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

700B

This song is intense	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song is upbeat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song sounds aggressive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song is relaxing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This song is mellow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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700B [This song is sad ☐ ☐ ☐ ☐ ☐ ☐ ☐

This song is romantic ☐ ☐ ☐ ☐ ☐ ☐ ☐

This song expresses a broken heart ☐ ☐ ☐ ☐ ☐ ☐ ☐

700C [The singer has a smooth voice ☐ ☐ ☐ ☐ ☐ ☐ ☐

The singer has a soulful voice ☐ ☐ ☐ ☐ ☐ ☐ ☐

The singer has high voice ☐ ☐ ☐ ☐ ☐ ☐ ☐

The singer has a sexy voice ☐ ☐ ☐ ☐ ☐ ☐ ☐

The singer has a powerful voice ☐ ☐ ☐ ☐ ☐ ☐ ☐

The singer has a truly great voice ☐ ☐ ☐ ☐ ☐ ☐ ☐

700D [This song would be good for easy listening ☐ ☐ ☐ ☐ ☐ ☐ ☐

This song would be good for a wild dance party ☐ ☐ ☐ ☐ ☐ ☐ ☐

This song would be good for slow dancing ☐ ☐ ☐ ☐ ☐ ☐ ☐

This song would be good for a workout ☐ ☐ ☐ ☐ ☐ ☐ ☐

This song would be good in a shopping mall ☐ ☐ ☐ ☐ ☐ ☐ ☐

700E [I know this song ☐ No ☐ Yes

I have a recording of this song (yes no) ☐ No ☐ Yes

The following questions are optional. This means that you do not have to answer them to proceed to the next question.

700F [This song would be good in the following situation(s):

[This song reminds me of (artists/songs):

700G [Other words that describe this song:

FIG 7A2

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Indicate on a scale from 0 through 6 how much each of these **main styles** are represented in this song.

[illegible]

Indicate on a scale from 0 through 6 how much each of these **sub styles** are represented in this song.

	0	1	2	3	4	5	6
Blues	⊙	○	○	○	○	○	○
Gospel	⊙	○	○	○	○	○	○
Motown	⊙	○	○	○	○	○	○
Stax/Memphis	⊙	○	○	○	○	○	○
Philly	⊙	○	○	○	○	○	○
Doo-wop	⊙	○	○	○	○	○	○

802

Fig 81 -

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Funk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Disco	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Old school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Blue-eyed soul	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adult contemporary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quiet storm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Crossover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dance/techno	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electro/synth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Jack swing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Retro/alternative	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hip hop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gangsta	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

802

Please describe the lead singer
(s). If no vocals select
instrumental

Female solo ☐

803

Please describe any backup
vocals

None ☐

804

Please describe the band

None ☐

805

Select the most important
instrument

None ☐

806

Select the second most
important instrument

None ☐

807

Select the third most important
instrument

None ☐

808

STRONGLY DISAGREE

NEUTRAL

STRONGLY AGREE

This song is a ballad
This song has a full sound
This song uses a catchy hook

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

809

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809

This song sounds like a live recording

☐ ☐ ☐ ☐ ☐ ☐ ☐

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[

I know this song

☐ No

Yes ☐

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I have a recording of this song

☐ No

Yes ☐

Next

FIG 8A3

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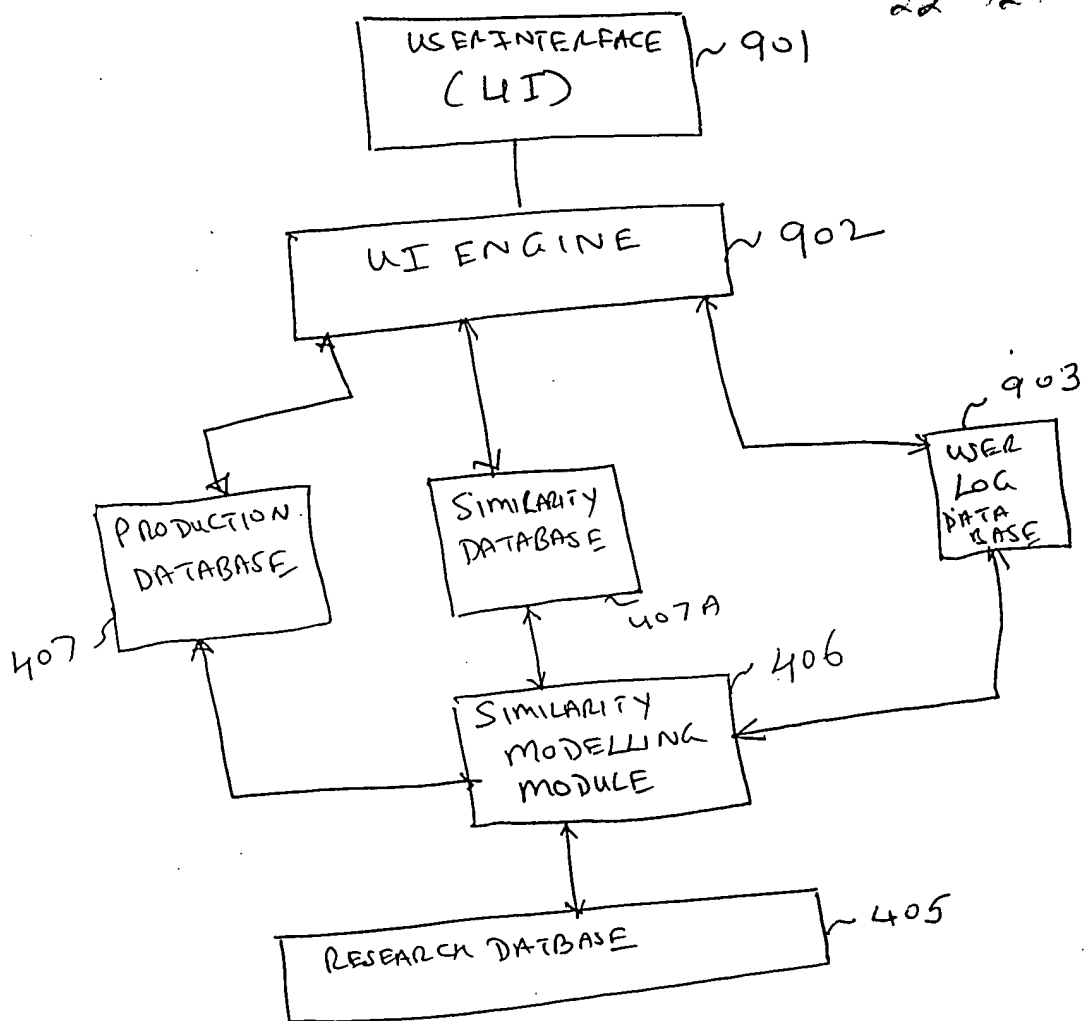


FIG 9



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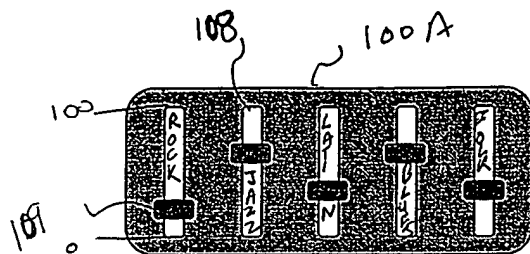


FIG 10B

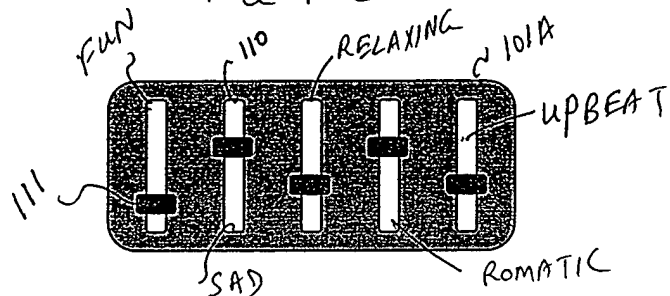


FIG 10C

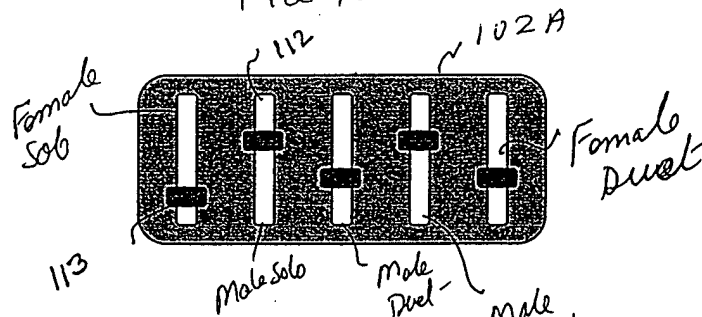


FIG 10D

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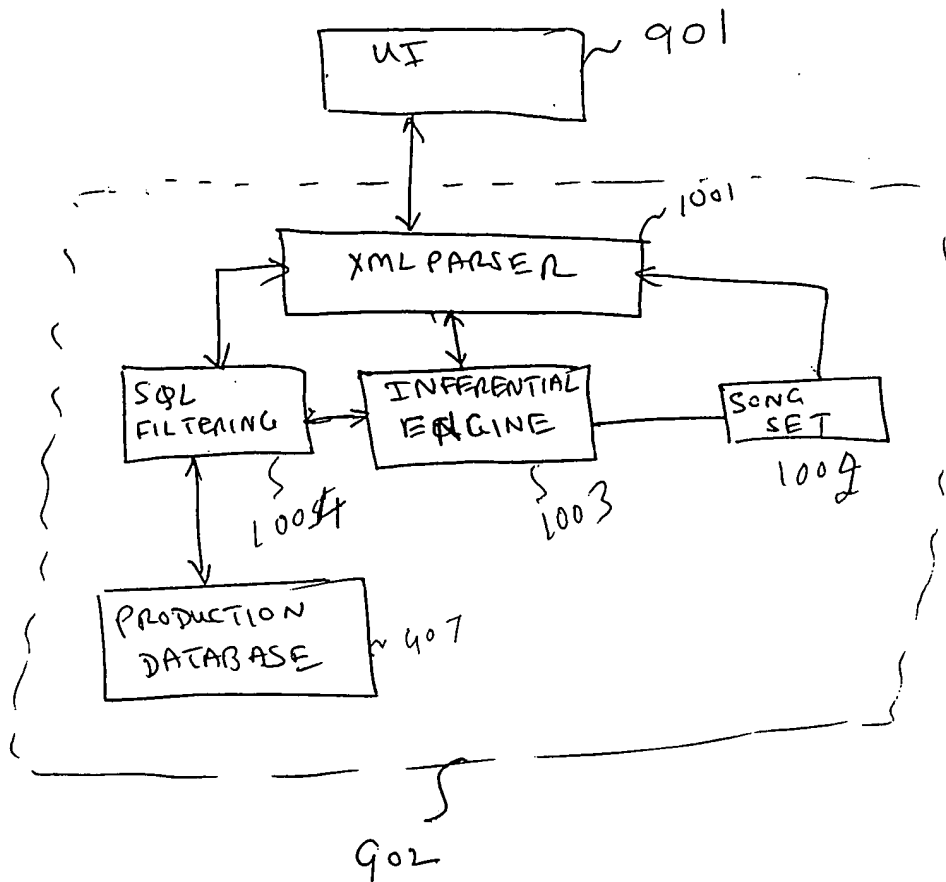


FIG. 11

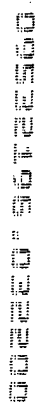
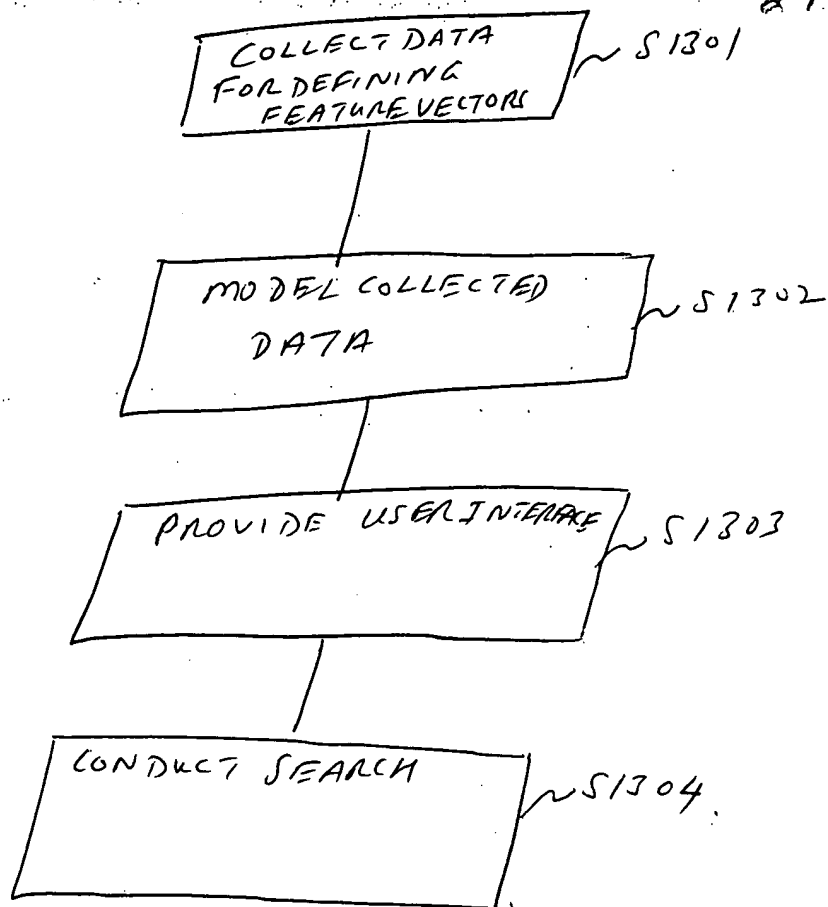


FIG 12

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FIG. 13.